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Plexiglas® Acrylic Molding Resin

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Typical Physical Properties PLEXIGLAS DR-101 Acrylic Resin

PROPERTIES	VALUE	TEST METHOD
PHYSICAL		
Melt Flow Rate (230°C / 3.8 kg)	1.0 g / 10 min	ASTM D1238
Specific Gravity	1.15	ASTM D792
Mold Shrinkage	0.3-0.8 %	ASTM D955
Water Absorption	0.4 % weight gain	ASTM D570
MECHANICAL		
Tensile Strength @ Maximum	5500 psi	ASTM D638
Tensile Elongation @ Break	50.0 %	ASTM D638
Tensile Modulus	270000 psi	ASTM D638
Flexural Strength, maximum	10300 psi	ASTM D790
Flexural Modulus	270000 psi	ASTM D790
Notched Izod (73°F/23°C)	1.1 ft-lb/in notch	ASTM D256
Rockwell Hardness	45 M	ASTM D785
THERMAL		
HDT (455 kPa ; annealed)	192 °F	ASTM D648
HDT (1820 kPa ; annealed)	175 °F	ASTM D648

Vicat Softening Point (Rate A ; 1 kg)	208 °F	ASTM D1525
Vicat Softening Point (Rate A ; 5 kg)	187 °F	ASTM D1525
Thermal Conductivity	1.50 BTU/hr*ft²*F/in	ASTM C177

OPTICAL

Refractive Index (N _D @ 73°F)	1.49	ASTM D542
Luminous Transmittance (0.125 in./3.2 mm.)	91 %	ASTM D1003
Haze (0.125 in./3.2 mm.)	<3 %	ASTM D1003

ASTM Classification	PMMA 0231V1	ASTM D788
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